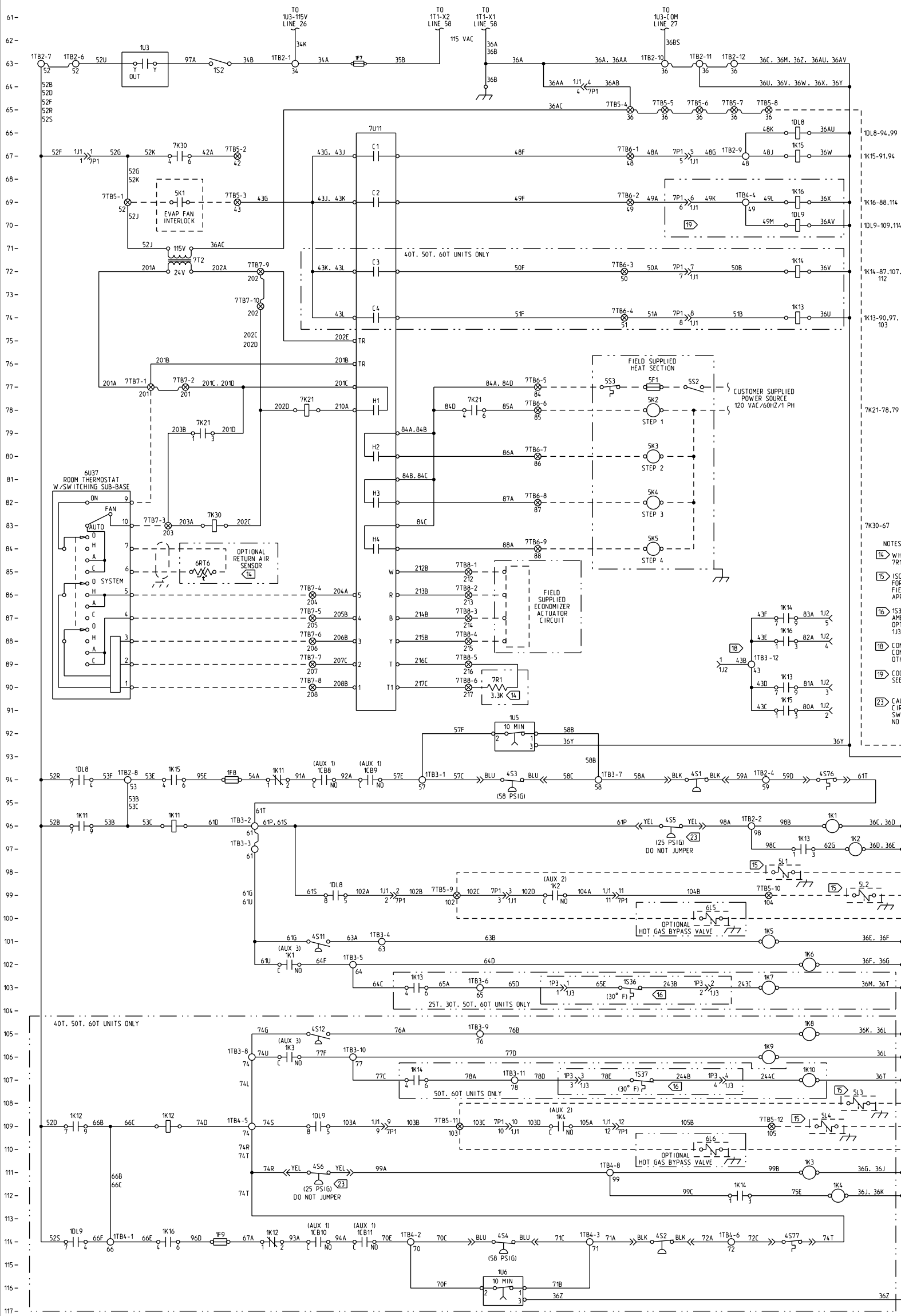




LEGEND		
DEVICE DESIG	DESCRIPTION	LINE NUMBER
1CB10	CIRCUIT BREAKER - COMPRESSOR	114
1CB11	CIRCUIT BREAKER - COMPRESSOR	114
1CB8	CIRCUIT BREAKER - COMPRESSOR	94
1CB9	CIRCUIT BREAKER - COMPRESSOR	94
1DL8	RELAY - TIME DELAY	66,94,99
1DL9	RELAY - TIME DELAY	70,109,114
1F7	FUSE - CONTROL CIRCUIT	63
1F8	FUSE - COMPRESSOR PROTECTION	94
1F9	FUSE - COMPRESSOR PROTECTION	114
1K1	CONTACTOR - COMPRESSOR	96,102
1K10	CONTACTOR - CONDENSER FAN	107
1K11	RELAY - RESET	94,96
1K12	RELAY - RESET	109,114
1K13	RELAY - COOLING	74,90,97,103,119
1K14	RELAY - COOLING	72,87,107,112
1K15	RELAY - COOLING	67,91,94
1K16	CONTACTOR - COMPRESSOR	69,88,114
1K2	CONTACTOR - COMPRESSOR	97,99
1K3	CONTACTOR - COMPRESSOR	106,111
1K4	CONTACTOR - COMPRESSOR	109,112
1K5	CONTACTOR - CONDENSER FAN	101
1K6	CONTACTOR - CONDENSER FAN	102
1K7	CONTACTOR - CONDENSER FAN	103
1K8	CONTACTOR - CONDENSER FAN	105
1K9	CONTACTOR - CONDENSER FAN	106
1S2	SWITCH - CONTROL CIRCUIT	63
1S36	SWITCH - LOW AMBIENT T-STAT	103
1S37	SWITCH - LOW AMBIENT T-STAT	107
1U3	PHASE MONITOR	63
1U5	TIMER - LOW PRESSURE	92
1U6	TIMER - LOW PRESSURE	116
4S1	SWITCH - HIGH PRESSURE CUTOFF	94
4S11	SWITCH - FAN PRESSURE	109
4S12	SWITCH - FAN PRESSURE	105
4S2	SWITCH - HIGH PRESSURE CUTOFF	114
4S3	SWITCH - LOW PRESSURE CUTOFF	94
4S4	SWITCH - LOW PRESSURE CUTOFF	114
4S5	SWITCH - COMP PROTECTION	96
4S6	SWITCH - COMP PROTECTION	111
4S76	SWITCH - DISCHARGE TEMP LIMIT	94
4S77	SWITCH - DISCHARGE TEMP LIMIT	114
5F1	FUSE - HEAT CONTROL	77
5K1	STARTER - EVAP FAN	69
5K2	CONTACTOR - HEAT (STEP 1)	69,78
5K3	CONTACTOR - HEAT (STEP 2)	80,81
5K4	CONTACTOR - HEAT (STEP 3)	82,83
5K5	CONTACTOR - HEAT (STEP 4)	84
5L1	SOLENOID - ISOLATION LIQUID	98
5L2	SOLENOID - UNLOADING LIQUID	99
5L3	SOLENOID - ISOLATION LIQUID	108
5L4	SOLENOID - UNLOADING LIQUID	109
5S2	SWITCH - HEAT CONTROL	77
5S3	LIMIT - HEAT CONTROL	77
6S5	SOLENOID - HOT GAS BYPASS	100
6L6	SOLENOID - HOT GAS BYPASS	110
6RT1	SENSOR - DUCT	119
6RT6	SENSOR - RETURN AIR TEMP.	85
6U37	ROOM THERMOSTAT	82
7K21	RELAY - HEAT	78,79
7K30	RELAY - EVAPORATOR FAN	67,83
7R1	RESISTOR - ECONOMIZER BIAS	90
7T2	TRANSFORMER - 24V CONTROL	71
7U11	MASTER ENERGY CONTROL	67

- NOTES:
- 14 WHEN DUCT SENSOR 6RT1 IS REQUIRED, REMOVE RESISTOR, 7R1, AND INSTALL AS SHOWN PER INSET "D".
 - 15 ISOLATION LIQUID SOLENOID VALVES (5L1,5L3) ARE REQUIRED FOR CHARGE ISOLATION (PROVIDED & INSTALLED BY THE FIELD). UNLOADING LIQUID SOLENOID VALVES (5L2,5L4), IF APPLICABLE, ARE PROVIDED & INSTALLED BY THE FIELD.
 - 16 1S36, 1S37 AND ASSOCIATED WIRING ARE USED WITH LOW AMBIENT OPTION ONLY. ON UNITS WITHOUT LOW AMBIENT OPTION, CONNECT JACK 1J3-2 TO PLUG 1P3-1 AND JACK 1J3-4 TO PLUG 1P3-3.
 - 18 CONNECTIONS TO 1J2 AND 1K13 - 1K16 ARE FOR "NO SYSTEM CONTROLS" OPTION. CONNECTIONS ARE NOT USED ON ALL OTHER CONTROL OPTIONS.
 - 19 COOL-2 CIRCUIT AS SHOWN IS FOR 40 THRU 60 TON UNITS. SEE INSET "C" FOR 20 THRU 30 TON CIRCUIT VARIATION.
 - 23 CAUTION!! DO NOT JUMPER ACROSS SWITCH UNDER ANY CIRCUMSTANCE. 4S5 & 4S6 ARE COMPRESSOR PROTECTION SWITCHES USED FOR COMPRESSOR PROTECTION WHEN A NO REFRIGERANT FLOW CONDITION EXISTS (25 PSIG).

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	INSIDE UNIT CONTROL BOX
2	FAN SECTION
3	COMPRESSOR SECTION
4	EXTERNAL MOUNTED COMPONENTS
5	CUSTOMER OR FIELD PROVIDED
6	SHIP W/ FIELD INSTALLED DEVICE
7	OPTIONAL CONTROL PLATE

TERMINAL BLOCKS	
DEVICE DESIG	DESCRIPTION
1TB2	POWER
1TB3	CONTROLS
1TB4	CONTROLS
1TB5	CUSTOMER CONN
1TB6	CUSTOMER CONN
1TB7	CUSTOMER CONN
1TB8	CUSTOMER CONN

TRANSF

THIS DRAWING IS DERIVED FROM THE SHIP W/ FIELD INSTALLED DEVICE. IT IS NOT A FIELD WIRING DIAGRAM. IT IS A SCHEMATIC W/ CONSTANT VOLUME CONTROLS. RA 20-60 TON. SCHEMATIC 2 OF 2.

FILE NUMBER: 2307-9709

DRAWING NUMBER: 2307-9709

SHEET: 1 OF 1

REV: A

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

PRECAUCIÓN
N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!
LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.
L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'EQUIPEMENT.

ATTENTION
¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

IMPORTANT!
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

INSET C
LINE 49A 7P1-6 49B 1K13 36U 1K13-90,97,103

INSET D
LINE 216C 7TB8-5 6RT1 216 7TB8-6 217